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SPC-	F005	.DWG

ı,	REVISIONS			DOC. NO. SPC-F005 * Effective: 7/8/02 * DCP No: 1398					
	DCP #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
	1908	Α	RELEASED	EO	6/7/06	YA	6/19/06	но	6/19/06

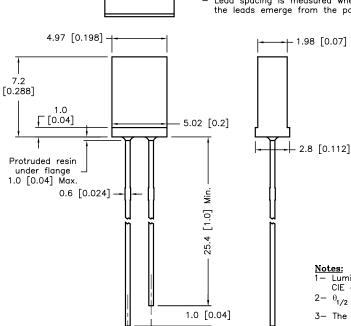


## Features:

- High intensityStandard 2 x 5mm package
- General purpose LED
- Reliable and rugged

Source	Color	Chip Material		Lens Color		
Red		A	sGaP	Red	Diffused	

<u>Specifications:</u>Lead spacing is measured where the leads emerge from the package



## Absolute Maximum Rating at Ta=25°C

Parameter	MAX.	Unit
Power Dissipation	100	mW
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	100	mA
Continuous Forward Current	30	mA
Derating Linear From 50°C	0.4	mA/°C
Reverse Voltage	5	V
Operating Temperature Range	-25°C to	+80°C
Storage Temperature Range	-40°C to	+100°C
Lead Soldering Temperature [4mm (0.157) From Body]	260°C fo	r 5 seconds

## Electrical Optical Characteristics at Ta=25°C

Parameter	Symbol	Min.	Тур.	Max	Unit	Test Condition
Luminous Intensity	Ι <sub>ν</sub>		25		mcd	I <sub>f</sub> =20mA (Note 1)
Viewing Angle	2θ <sub>1/2</sub>		100		Deg	(Note 2)
Peak Emission Wavelength	λр		660		nm	I <sub>f</sub> =20mA
Dominant Wavelength	λd		645		nm	I <sub>f</sub> =20mA (Note 3)
Forward Voltage	$V_{f}$		2.0	2.5	٧	I <sub>f</sub> =20mA
Reverse Current	$\mathbf{I}_{\!R}$			100	μΑ	V <sub>R</sub> =5V

- Notes:

  1 Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye—response curve.

  CIE eye—response curve.
- 2-  $\theta_{1/2}$  is the off-axis angle at which the luminous intensity is half the axial luminous intensity
- 3- The x and y parameters correspond to the CIE 1931 Chromaticity

DISCLAIMER:
ALL STATEMENTS AND TECHNICAL INFORMATION CONTAINED
HEREIN ARE BASED UPON INFORMATION AND/OR TESTS WE
BELIEVE TO BE ACCURATE AND RELIABLE. SINCE
CONDITIONS OF USE ARE BEYOND OUR CONTROL, THE
USER SHALL DETERMINE THE SUITABLITY OF THE PRODUCT
FOR THE INTENDED USE AND ASSUME ALL RISK AND
LIABILITY WHATSOEVER IN CONNECTION THEREWITH.

2.54 [0.1] Nom. 4

UNLESS OTHERWISE SPECIFIED, ±0.25 [±0.010]

0.5 [0.02] SQ. -TOLERANCES:

DRAWN BY: EKLAS ODISH 6/7/06 CHECKED BY: DATE: YILMAZ AKYONDEM 6/19/06 APPROVED BY: DATE: HISHAM ODISH 6/19/06

DATE: SCALE:

DRAWING TITLE: Standard LED, Rectangular Lens, 2  $\times$  5mm, Red Emitting Color DWG. NO.

NTS

MC20463

U.O.M.: mm [INCHES]

ELECTRONIC FILE 87K7084.DWG

> SHEET: 1 OF 2

REV

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